

### Simmeringer Haide – Waste Incineration System

**LOCATION:** Vienna, Austria

**SERVICES:** Commissioning, Project management, Site management, Basic-engineering and pre-engineering, Detail engineering

**INDUSTRY BRANCH/TYPE OF PLANT:** Power Generation, Waste incineration systems

**CLIENT:** Fernwärme Wien (district heating for Vienna)

#### POINTS OF CONTACT



#### TASK

- Process analyses and process engineering evaluations with regard to the energy saving potential
- Significant increase in availability
- Complying with statutory emissions values
- Low oxygen fluctuations

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#### CONTENTS OF THE CONCEPT STUDY FOR OPTIMIZING THE ROTARY KILN II

- Process analyses and process engineering evaluations
- Improvement in highly-sensitive process sequences
- Specifications for modified operating concepts
- Use of fuel for energy
- Increase in performance
- Open and transparent control concept on the basis of multi-variable characteristic map control
- Stabilization of the steam output and oxygen content in the flue gas
- Optimization of thermal combustion processes
- Use and reduction in emission limit values

#### SUMMARY OF THE CONCEPT STUDY PREPARED

- Increase in plant efficiency due to lower waste gas losses in the flue gas
- Largely constant oxygen content in the flue gas
- Increase in the waste quantity throughput
- Constant steam production
- Longer campaign times
- Lower consumption of backup fuels
- Smoothly running combustion process
- Reduction in strain on the involved and down-circuit units
- Reduction in the message sequence procedure



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## INP Reference

- Lower maintenance costs and inspections
- Reduced workload for operating personnel
- Annual saving of approx. 1,600,000 kWh